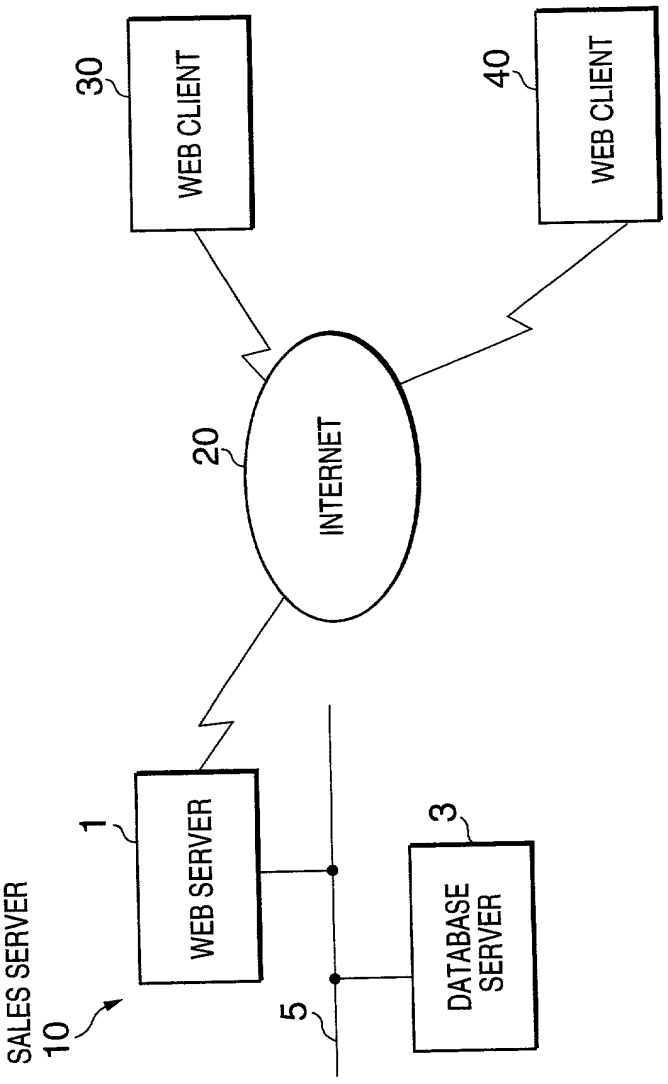
FIG. 1


30
WEB CLIENT
40
WEB CLIENT
20
INTERNET
1
WEB SERVER
3
DATABASE SERVER
5
SALES SERVER
10

FOREIGN PATENT DOCUMENT

FIG. 2

100 USER TABLE

USER ID	PASSWORD	NAME	LANGUAGE CODE	COMPANY CODE	COMPANY NAME	MEMBER REGISTRATION AUTHORITY	PARENT COMPANY CODE	CONTROLLING COMPANY CODE
KM0000	Tokyo	KOMATSU TARO	JP	JP9999	KOMATSU	○	—	JP9999
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	
A 0000	Osaka	USER A	JP	JP1111	COMPANY A	○	JP9999	JP1111
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	
B 0000	NewYork	USER B	EN	US1111	COMPANY B	○	JP9999	US1111
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	
C 0000	London	USER C	EN	GB1111	COMPANY C	○	US1111	US1111
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	
D 0000	Paris	USER D	FR	FR1111	COMPANY D	—	GB1111	FR1111
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	

FIG. 3

110 LANGUAGE TABLE

LANGUAGE CODE	SCREEN NUMBER	ITEM NUMBER	TITLE
JP (JAPANESE)	001	1	BASIC INFORMATION
JP	001	2	MACHINE TYPE
JP	001	3	MACHINE NO.
JP	001	4	MAKER
JP	001	5	COUNTRY OF MANUFACTURE
JP	001	6	CLASS
JP	⋮	⋮	⋮
JP	002	1	⋮
⋮	⋮	⋮	⋮
EN (ENGLISH)	001	1	⋮
EN	001	2	⋮
⋮	⋮	⋮	⋮

FIG. 4

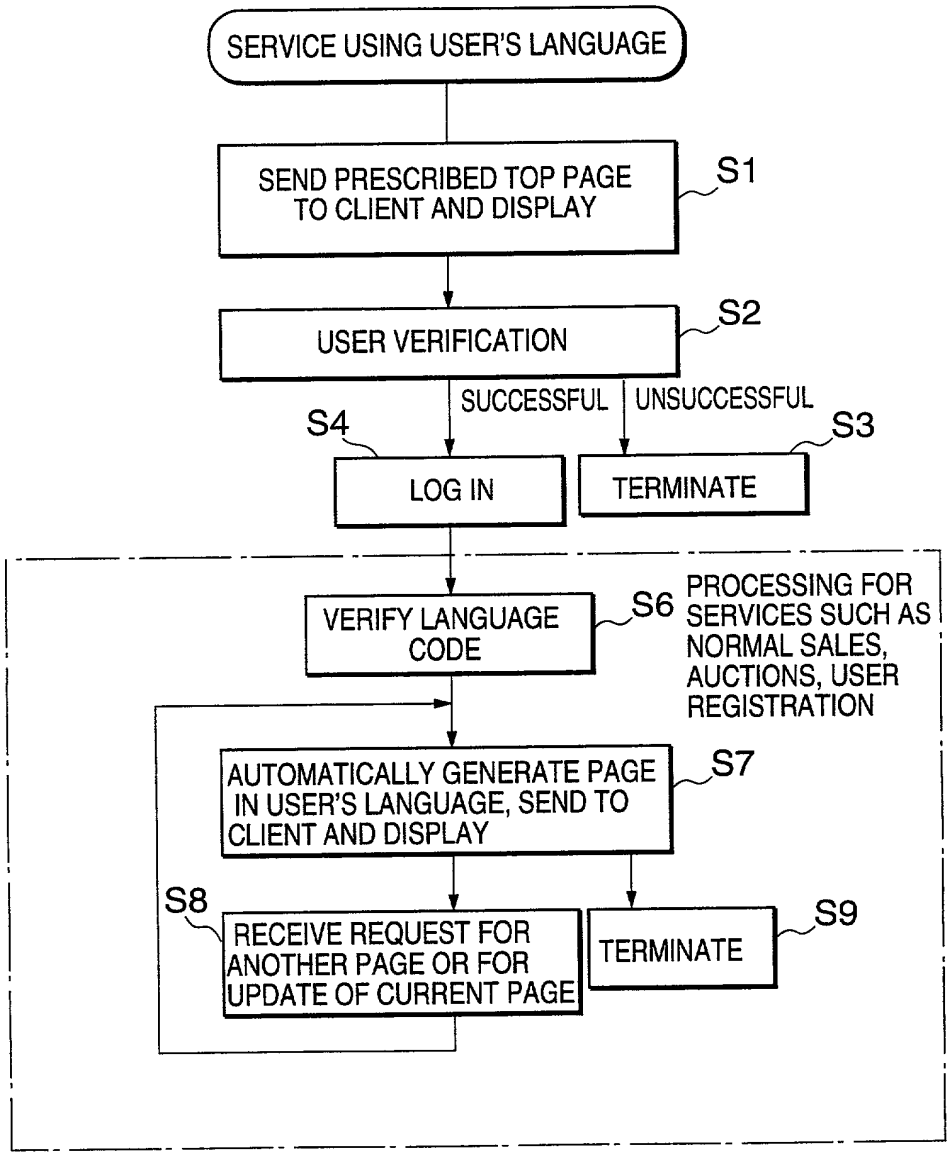

SERVICE USING USER'S LANGUAGE
SEND PRESCRIBED TOP PAGE TO CLIENT AND DISPLAY
S1
USER VERIFICATION
S2
SUCCESSFUL
UNSUCCESSFUL
S4
S3
LOG IN
TERMINATE
VERIFY LANGUAGE CODE
S6
PROCESSING FOR SERVICES SUCH AS NORMAL SALES, AUCTIONS, USER REGISTRATION
AUTOMATICALLY GENERATE PAGE IN USER'S LANGUAGE, SEND TO CLIENT AND DISPLAY
S7
S8
RECEIVE REQUEST FOR ANOTHER PAGE OR FOR UPDATE OF CURRENT PAGE
TERMINATE
S9

FIG. 5

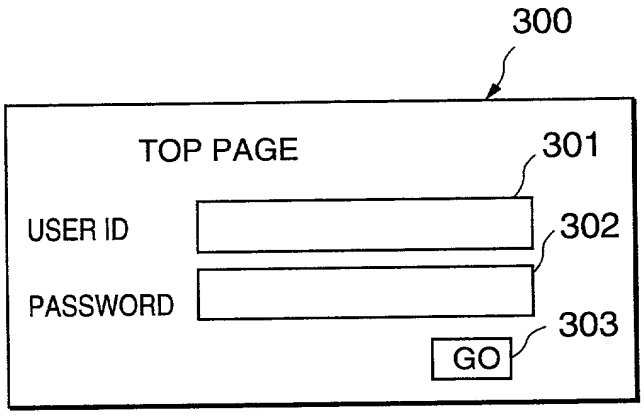


FIG. 6

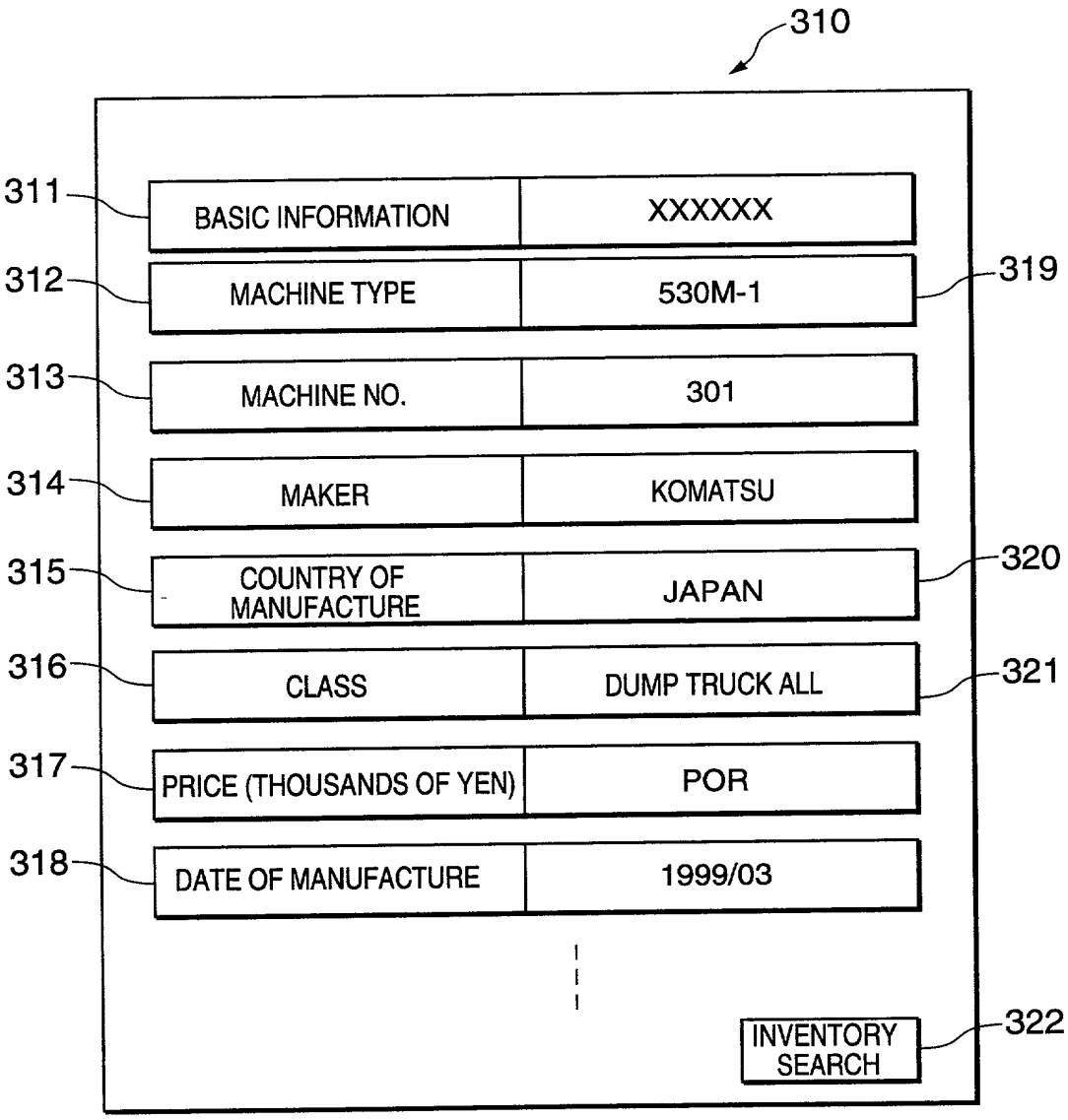

310
311
BASIC INFORMATION
XXXXXX
312
MACHINE TYPE
530M-1
319
313
MACHINE NO.
301
314
MAKER
KOMATSU
315
COUNTRY OF MANUFACTURE
JAPAN
320
316
CLASS
DUMP TRUCK ALL
321
317
PRICE (THOUSANDS OF YEN)
POR
318
DATE OF MANUFACTURE
1999/03
INVENTORY SEARCH
322

FIG. 7

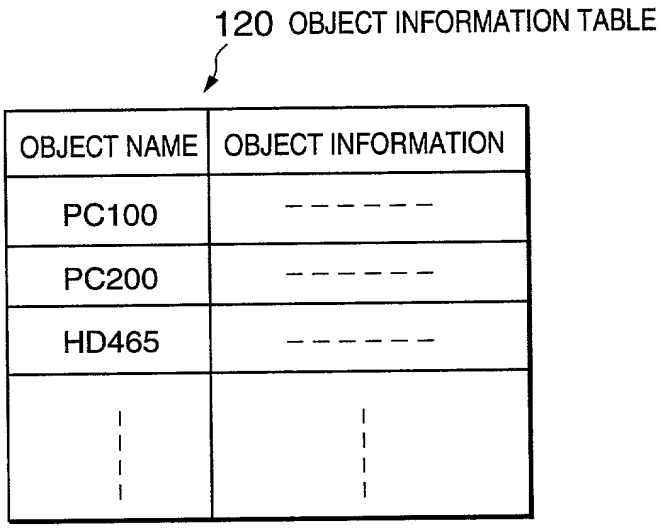

120 OBJECT INFORMATION TABLE
OBJECT NAME
OBJECT INFORMATION
PC100
PC200
HD465

FIG. 8

130 GROUP TABLE

GROUP	COMPANY CODE
GROUP-1	JP9999
GROUP-1	JP1111
⋮	⋮
GROUP-2	US1111
⋮	⋮
GROUP-3	GB1111
GROUP-3	FR1111
⋮	⋮

FIG. 9

140 PRICE TABLE

OBJECT NAME	GROUP	PRICE (THOUSANDS OF YEN)
PC100	GROUP-1	1,100
PC100	GROUP-2	1,000
PC200	GROUP-1	2,000
PC200	GROUP-2	2,000
PC200	GROUP-3	1,900
HD465	GROUP-1	1,500
HD465	GROUP-3	1,400
⋮	⋮	⋮

FIG. 10

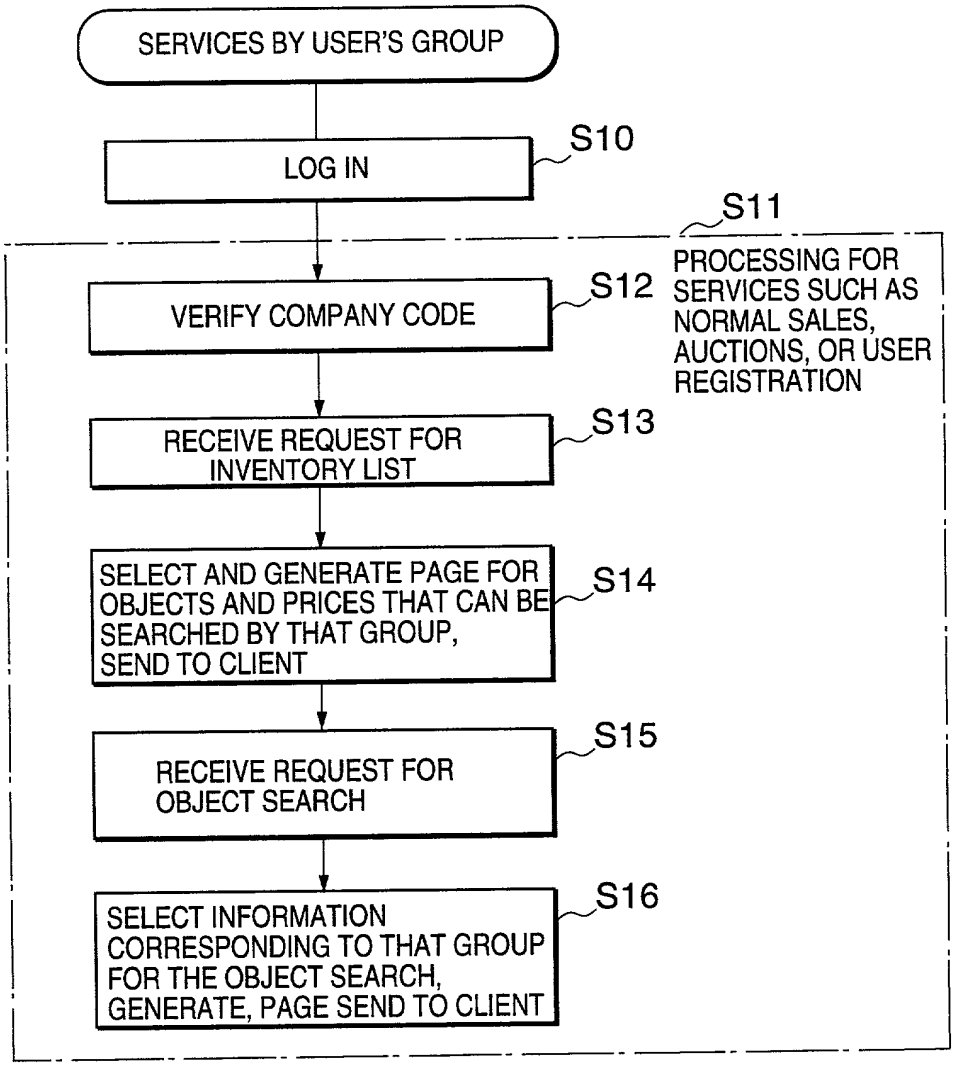

SERVICES BY USER'S GROUP
LOG IN
S10
S11
PROCESSING FOR SERVICES SUCH AS NORMAL SALES, AUCTIONS, OR USER REGISTRATION
VERIFY COMPANY CODE
S12
RECEIVE REQUEST FOR INVENTORY LIST
S13
SELECT AND GENERATE PAGE FOR OBJECTS AND PRICES THAT CAN BE SEARCHED BY THAT GROUP, SEND TO CLIENT
S14
RECEIVE REQUEST FOR OBJECT SEARCH
S15
SELECT INFORMATION CORRESPONDING TO THAT GROUP FOR THE OBJECT SEARCH, GENERATE, PAGE SEND TO CLIENT
S16

FIG. 11

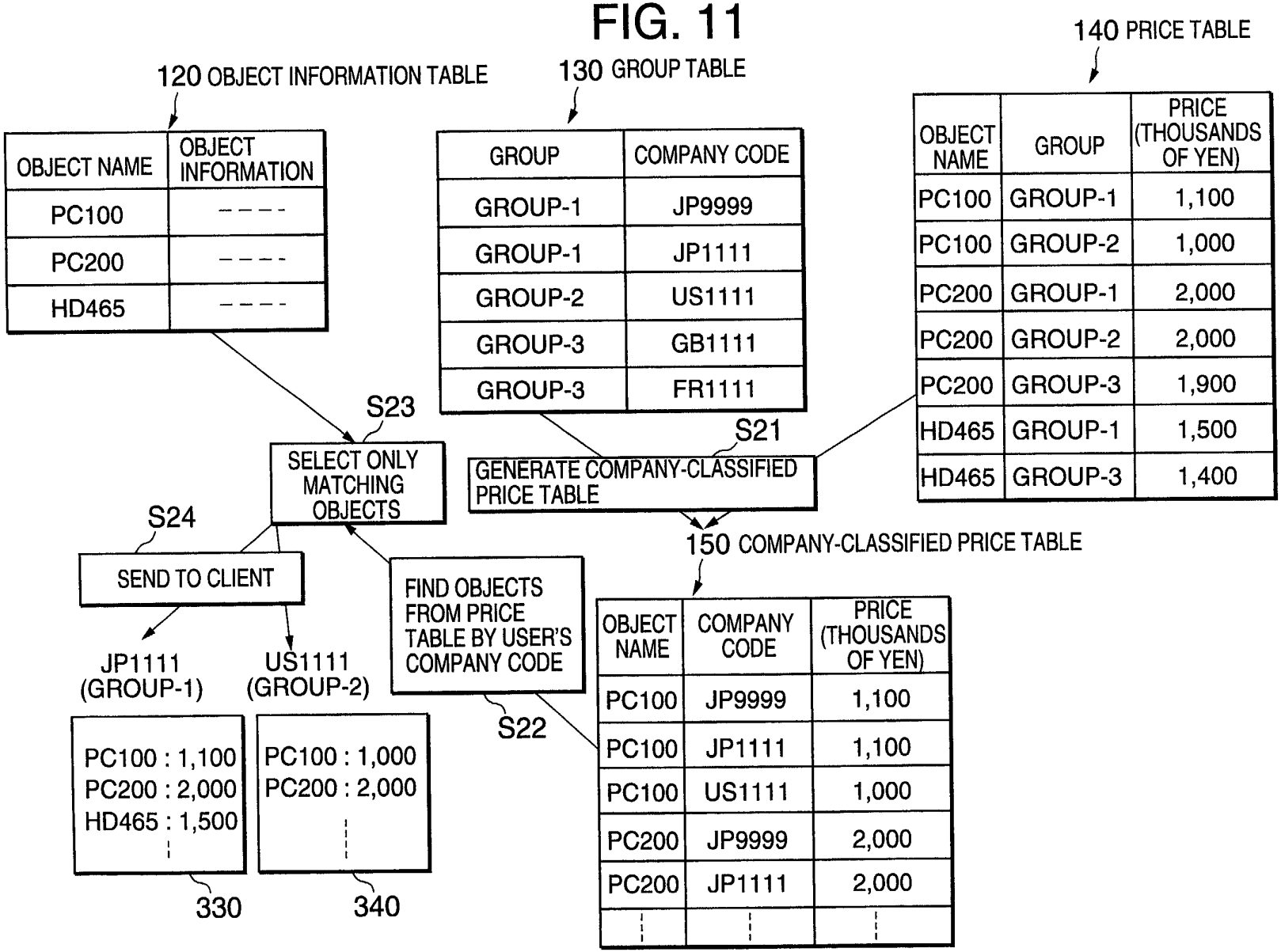

120 OBJECT INFORMATION TABLE
130 GROUP TABLE
140 PRICE TABLE
OBJECT NAME
OBJECT INFORMATION
PC100
PC200
HD465
GROUP
COMPANY CODE
GROUP-1
JP9999
GROUP-1
JP1111
GROUP-2
US1111
GROUP-3
GB1111
GROUP-3
FR1111
OBJECT NAME
GROUP
PRICE (THOUSANDS OF YEN)
PC100
GROUP-1
1,100
PC100
GROUP-2
1,000
PC200
GROUP-1
2,000
PC200
GROUP-2
2,000
PC200
GROUP-3
1,900
HD465
GROUP-1
1,500
HD465
GROUP-3
1,400
S23
SELECT ONLY MATCHING OBJECTS
S21
GENERATE COMPANY-CLASSIFIED PRICE TABLE
S24
SEND TO CLIENT
150 COMPANY-CLASSIFIED PRICE TABLE
FIND OBJECTS FROM PRICE TABLE BY USER'S COMPANY CODE
S22
OBJECT NAME
COMPANY CODE
PRICE (THOUSANDS OF YEN)
PC100
JP9999
1,100
PC100
JP1111
1,100
PC100
US1111
1,000
PC200
JP9999
2,000
PC200
JP1111
2,000
JP1111 (GROUP-1)
US1111 (GROUP-2)
PC100 : 1,100
PC200 : 2,000
HD465 : 1,500
PC100 : 1,000
PC200 : 2,000
330
340

FIG. 12

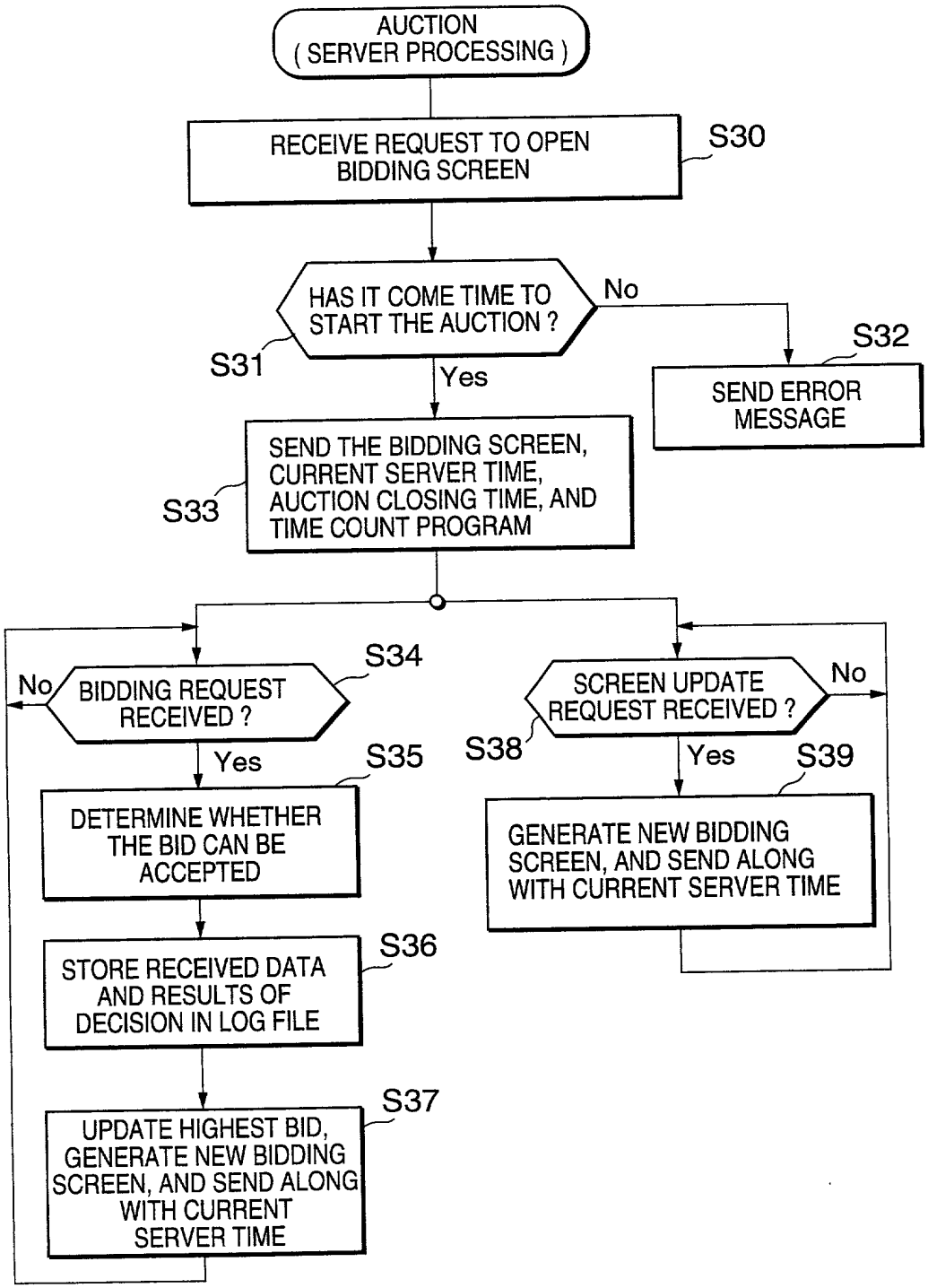

AUCTION
(SERVER PROCESSING)
RECEIVE REQUEST TO OPEN BIDDING SCREEN
S30
HAS IT COME TIME TO START THE AUCTION ?
S31
No
Yes
S32
SEND ERROR MESSAGE
SEND THE BIDDING SCREEN, CURRENT SERVER TIME, AUCTION CLOSING TIME, AND TIME COUNT PROGRAM
S33
No
BIDDING REQUEST RECEIVED ?
S34
Yes
S35
DETERMINE WHETHER THE BID CAN BE ACCEPTED
STORE RECEIVED DATA AND RESULTS OF DECISION IN LOG FILE
S36
UPDATE HIGHEST BID, GENERATE NEW BIDDING SCREEN, AND SEND ALONG WITH CURRENT SERVER TIME
S37
SCREEN UPDATE REQUEST RECEIVED ?
S38
No
Yes
S39
GENERATE NEW BIDDING SCREEN, AND SEND ALONG WITH CURRENT SERVER TIME

FIG. 13

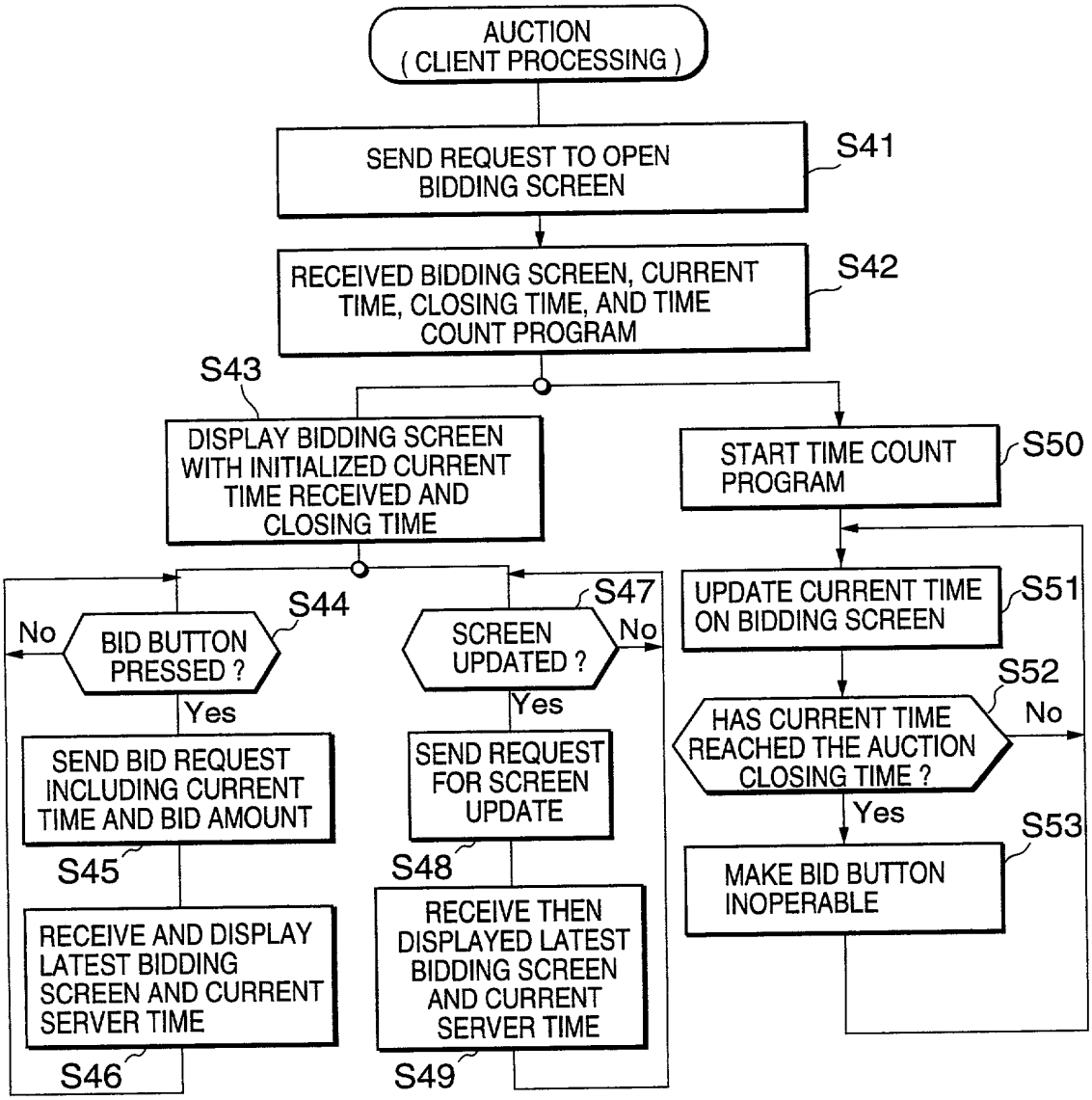

AUCTION
(CLIENT PROCESSING)
SEND REQUEST TO OPEN BIDDING SCREEN
S41
RECEIVED BIDDING SCREEN, CURRENT TIME, CLOSING TIME, AND TIME COUNT PROGRAM
S42
S43
DISPLAY BIDDING SCREEN WITH INITIALIZED CURRENT TIME RECEIVED AND CLOSING TIME
START TIME COUNT PROGRAM
S50
UPDATE CURRENT TIME ON BIDDING SCREEN
S51
S44
BID BUTTON PRESSED ?
No
Yes
SEND BID REQUEST INCLUDING CURRENT TIME AND BID AMOUNT
S45
RECEIVE AND DISPLAY LATEST BIDDING SCREEN AND CURRENT SERVER TIME
S46
S47
SCREEN UPDATED ?
No
Yes
SEND REQUEST FOR SCREEN UPDATE
S48
RECEIVE THEN DISPLAYED LATEST BIDDING SCREEN AND CURRENT SERVER TIME
S49
S52
HAS CURRENT TIME REACHED THE AUCTION CLOSING TIME ?
No
Yes
S53
MAKE BID BUTTON INOPERABLE

FIG. 14

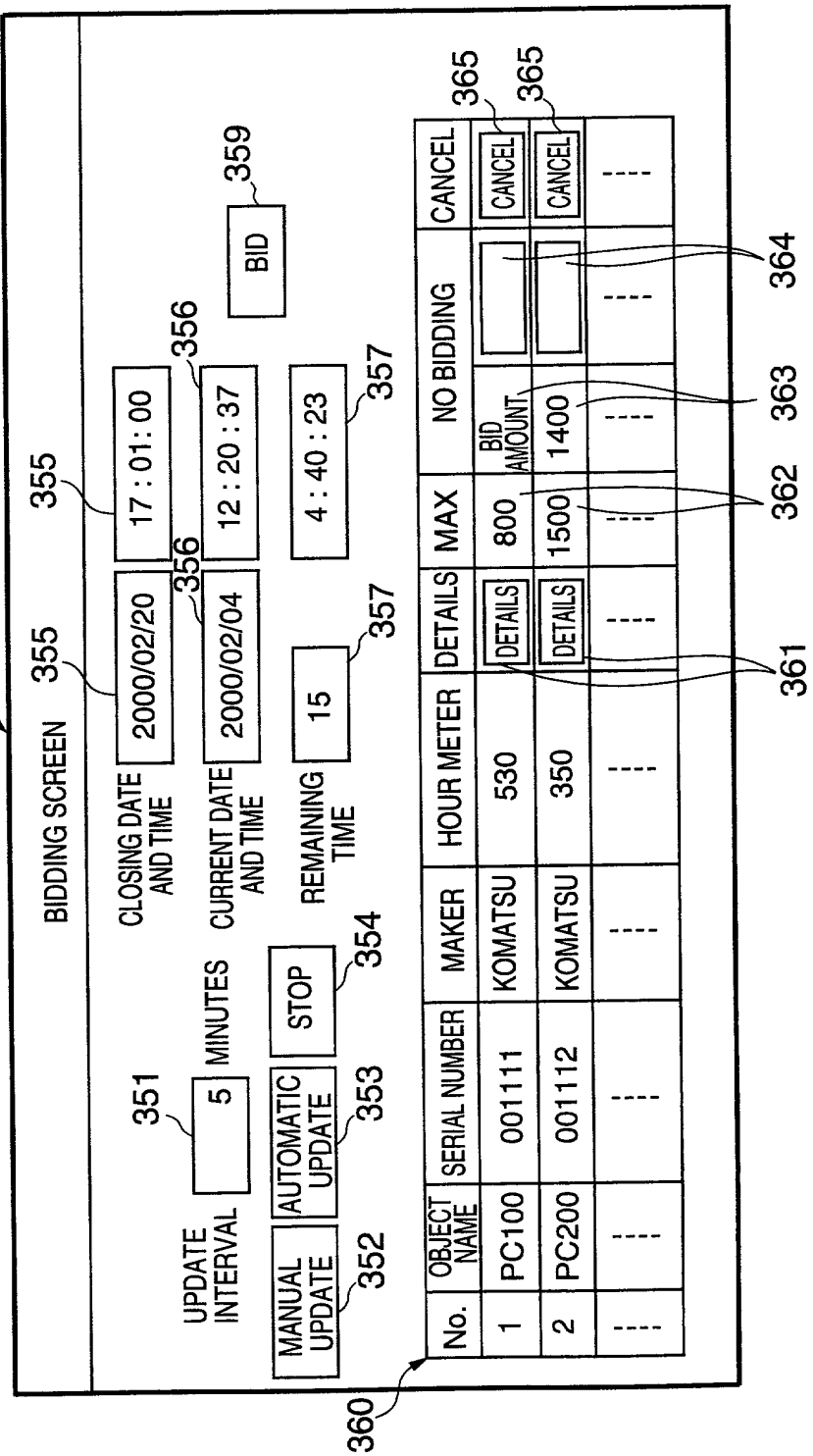

350
BIDDING SCREEN
355
CLOSING DATE AND TIME
2000/02/20
17 : 01: 00
356
CURRENT DATE AND TIME
2000/02/04
12 : 20 : 37
REMAINING TIME
15
4 : 40 : 23
357
BID
359
UPDATE INTERVAL
351
5
MINUTES
MANUAL UPDATE
352
AUTOMATIC UPDATE
353
STOP
354
No.
OBJECT NAME
SERIAL NUMBER
MAKER
HOUR METER
DETAILS
MAX
NO BIDDING
BID AMOUNT
CANCEL
365
1
PC100
001111
KOMATSU
530
DETAILS
800
1400
CANCEL
2
PC200
001112
KOMATSU
350
DETAILS
1500
360
361
362
363
364

FIG. 15

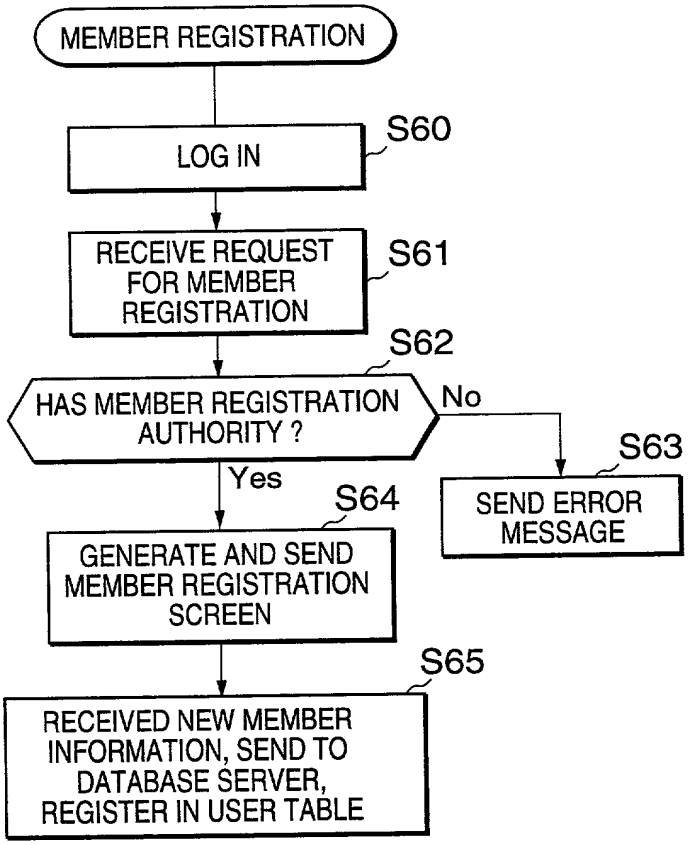

MEMBER REGISTRATION
LOG IN
S60
RECEIVE REQUEST FOR MEMBER REGISTRATION
S61
S62
HAS MEMBER REGISTRATION AUTHORITY ?
No
S63
SEND ERROR MESSAGE
Yes
S64
GENERATE AND SEND MEMBER REGISTRATION SCREEN
S65
RECEIVED NEW MEMBER INFORMATION, SEND TO DATABASE SERVER, REGISTER IN USER TABLE

FIG. 16

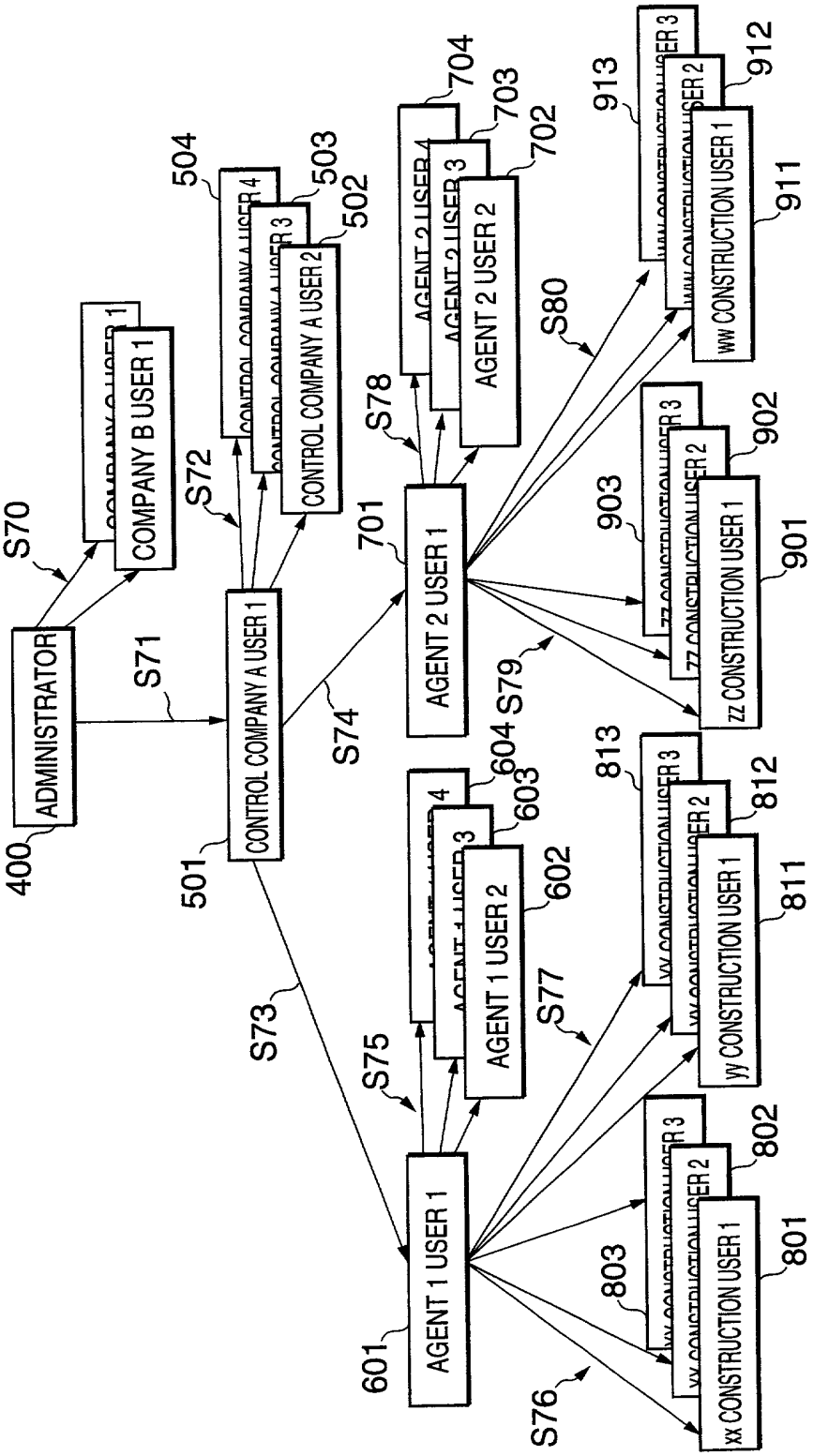

400
ADMINISTRATOR
S70
COMPANY B USER 1
S71
CONTROL COMPANY A USER 1
501
S72
CONTROL COMPANY A USER 2
502
CONTROL COMPANY A USER 3
503
CONTROL COMPANY A USER 4
504
S73
S74
AGENT 2 USER 1
701
S78
AGENT 2 USER 2
702
AGENT 2 USER 3
703
AGENT 2 USER 4
704
S80
S79
AGENT 1 USER 1
601
S75
AGENT 1 USER 2
602
AGENT 1 USER 3
603
AGENT 1 USER 4
604
S77
S76
xx CONSTRUCTION USER 1
801
xx CONSTRUCTION USER 2
802
xx CONSTRUCTION USER 3
803
yy CONSTRUCTION USER 1
811
yy CONSTRUCTION USER 2
812
yy CONSTRUCTION USER 3
813
zz CONSTRUCTION USER 1
901
zz CONSTRUCTION USER 2
902
zz CONSTRUCTION USER 3
903
ww CONSTRUCTION USER 1
911
ww CONSTRUCTION USER 2
912
ww CONSTRUCTION USER 3
913

FIG. 17

160 COMPANY TABLE

COMPANY CODE	COMPANY NAME	URL	-----
JP9999	KOMATSU TOKYO	http://www.tokyo.komatsu.co.jp/	-----
⋮	⋮	⋮	⋮

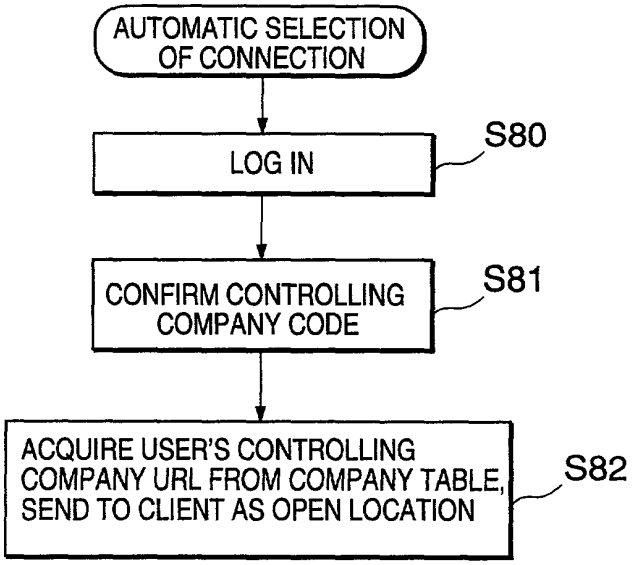



FIG. 18